

I claim:

1. A continuously variable transmission comprising:

a cone shaped member having a shaft centrally positioned
5 therethrough, said cone shaped member comprising a plurality of
radially extending wings;

said cone shaped member being slidably moveable axially with
respect to said drive shaft;

a ring gear encircling said cone shaped member, said ring
10 gear in interlocking communication with said cone member;

said ring gear enclosed by a housing and pivotable about a
fixed point; and

a plurality of linkage arms, each said linkage arm pivotally
connected to said radially extending wing and each said linkage
15 arm pivotally connected to said joining member.

2. A continuously variable transmission as in Claim 1
wherein each said radially extending wing comprises a ledge
portion for receiving said linkage arm, and each said linkage arm
20 comprises a slider member for slidably engaging said ledge.

3. A continuously variable transmission as claimed in Claim
1 wherein said plurality of radially extending wings comprise
five radially extending wings.

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4. A continuously variable transmission as claimed in Claim

1 wherein said each said linkage arm comprises a first strut and
a second strut parallel to said first strut.

5 5. A continuously variable transmission as in claim 2,
wherein each said slider member comprises:

a first clamp and opposing second clamp for slidably
contacting said ledge of said radially extending wing;

a worm gear for engaging said cone member with said ring
gear; and

10 an axle extending from said first clamp to said second clamp
and, supporting said worm gear and allowing for rotation of said
worm gear.

6. A continuously variable transmission as claimed in
15 Claim 4 wherein each said cone member comprises a central bore
for receiving said drive shaft, a plurality of extension arms,
each said extension arm having at least one receptacle for
pivotally receiving at least one of said linkage arms.

20 7. A continuously variable transmission comprising:

a cone shaped member having a shaft centrally positioned
therethrough, said cone shaped member comprising a plurality of
radially extending wings;

said cone shaped member being slidably moveable axially with
25 respect to said drive shaft;

a ring gear encircling said cone shaped member, said ring

gear in interlocking communication with said cone member;

said ring gear enclosed by a housing and pivotable about a fixed point;

5 a plurality of linkage arms, each said linkage arm pivotally connected to said radially extending wing and each said linkage arm pivotally connected to said joining member;

wherein each said radially extending wing comprises a ledge portion for receiving said linkage arm, and said linkage arm comprises a slider member for slidably engaging said ledge;

10 wherein said each said linkage arm comprises a first strut and a second strut parallel to said first strut;

wherein said slider member comprises a first clamp and opposing second clamp for slidably contacting said ledge of said radially extending wing;

15 a worm gear for engaging said cone member with said ring gear;

an axle extending from said first clamp to said second clamp and, supporting said worm gear and allowing for rotation of said worm gear; and,

20 wherein said cone member comprises a central bore for receiving said drive shaft, a plurality of extension arms, each said extension arm having at least one receptacle for pivotally receiving at least one of said linkage arms.

25 8. A continuously variable transmission as claimed in Claim 2 wherein said joining member is separated from said cone

member by a length substantially equal to the length of said ledge member.

9. A continuously variable transmission as claimed in
5 Claim 1 wherein the diameter of said joining member equals at least the minimum obtainable diameter of said cone shaped member.

12. A continuously variable transmission as in Claim 1
10 further comprising a means for controllably sliding said cone shaped member horizontally along the axis of said drive shaft.

13. A continuously variable transmission as in claim 12,
wherein said sliding of said cone shaped member results in a
15 proportional angular displacement of said ring gear about said point of pivot.

14. A continuously variable transmission as in claim 13,
wherein said means of controllably sliding comprises a DC motor.
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15. A continuously variable transmission as in claim 13,
wherein said means of controllably sliding comprises a servomotor.

16. A continuously variable transmission as in claim 13, wherein said means of controllably sliding comprises a serpentine belt system.